1 2 3 4	THE EMBODIMENTS OF THE INVENTION FOR WHICH AND EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMS ARE DEFINED AS FOLLOWS:
5	1. Apparatus for administration of a PC-Server, the PC-Server having
6	an architecture which outputs console data to a data bus for read and write
7	functions to peripherals including a display adapter, and having an input interface,
8	comprising:
9	(a) an adapter on the bus which emulates a display adapter to an
10	extent necessary to receive display data from the PC-Server's bus;
11	(b) means for extracting the display data from the adapter;
12	(c) means for transmitting the display data to a remote user;
13	(d) means for receiving data from the remote user representing input
14	commands to the PC-Server; and
15	(e) means for transmitting input commands to, and compatible with,
16	the PC-Server input interface.
17	
18	2. The administration apparatus as recited in claim 1 wherein the
19	adapter is capable of determining the form of the display data being written from the
20	bus.
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22	3. The administration apparatus as recited in claim 1 wherein the
23	adapter emulates at least a video frame buffer of a display adapter.
24	

2	4. The administration apparatus as recited in claim 3 wherein the
3	adapter emulates at least video frame buffer and a video controller of a display
4	adapter.

5. The administration apparatus as recited in claim 1 further comprising a microprocessor for extracting the display data from the adapter and for converting it to a stream compatible for transmission to a remote user.

6. The administration apparatus as recited in claim 1 wherein the display data is graphical, further comprising means for converting the graphical display data to textual display data for transmission to a remote user.

7. The administration apparatus as recited in claim 1 wherein the means for transmitting the display data and the means for receiving input commands are one or more serial devices.

8. The administration apparatus as recited in claim 1 wherein the means for transmitting the input commands to the PC-Server input interface comprise means for emulating commands compatible with a keyboard input interface.

1	9. The administration apparatus as recited in claim 8 wherein the
2	keyboard input interface is a serial device.
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4	10. The administration apparatus as recited in claim 9 wherein the
5	keyboard input interface is a keyboard jack.
6	
7	11. The administration apparatus as recited in claim 8 wherein the
8	input interface is a wireless device.
9	
10	12. The administration apparatus as recited in claim 1 wherein the PC-
11	Server has a hardware reset switch, further comprising:
12	(a) means for determining if a received input command is a reset
13	command; and
14	(b) means for actuating the hardware reset of the PC-Server.
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16	13. The administration apparatus as recited in claim 12 wherein a
17	microprocessor determines if an input command is a reset command and actuates a
18	relay for actuating the hardware reset of the PC-Server.
19	

1	14. The administration apparatus as recited in claim 12 further
2	comprising:
3	(a) means for a setting a hook in the PC-Server operating system for
4	periodically writing a predetermined string on the bus to a specified watchdog
5	address on the adapter;
6	(b) a microprocessor for associated with the adapter for timing the
7	duration between sequential writing to the watchdog address and comparing the
8	duration to a predetermined time; and
9	(c) actuating the hardware reset of the PC-Server if the duration
10	between sequential writes exceeds the predetermined time.
11	
12	15.A method of remote user administration of a PC-Server having a
13	data bus for read and write functions to peripherals including a display adapter, and
14	having an input interface, comprising the steps of:
15	(a) providing a peripheral adapter on the bus which emulates the
16	display adapter to an extent necessary to receive display data from the bus and
17	which has a communications device for transmission of data between the PC-
18	Server and the remote user;
19	(b) determining if the bus has written display data to the adapter;
20	(c) extracting the display data from the adapter;
21	(d) transmitting the display data via the communications device to the
22	remote user;

1	(e) receiving input commands from the remote user via the
2	communications device; and
3	(f) transmitting the received input commands to and compatible with
4	the input interface.
5	
6	16. The method as recited in claim 15 wherein the adapter emulates a
7	video frame buffer of a display adapter.
8	
9	17. The method as recited in claim 16 wherein the adapter further
10	emulates a video controller of a display adapter.
11	
12	18. The method as recited in claim 17 further comprising:
13	(a) providing a microprocessor on the adapter;
14	(b) extracting the display data from the adapter with the
15	microprocessor;
16	(c) converting the display data for transmission to a remote user with
17	the microprocessor.
18	
19	19. The method as recited in claim 18 further comprising converting
20	graphical display data to textual display data before transmission to the remote
21	user.
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1	20. The method as recited in claim 18 further comprising transmitting
2	display data and receiving input commands via a serial communications device.
3	
4	21. The method as recited in claim 18 further comprising emulating
5	input commands compatible with the input interface using a microprocessor.
6	
7	22.A method for implementing a speech synthesis system from a PC-
8	Server having a data bus for read and write functions to peripherals including a
9	display adapter, comprising the steps of:
10	(a) providing a speech synthesis device which accepts textual data;
11	(b) providing a peripheral adapter on the bus which emulates a display
12	adapter to an extent necessary to receive display data from the bus and which has
13	a communications device for transmission of data between the PC-Server and the
14	speech synthesis device;
15	(c) determining if the bus has written display data to the adapter;
16	(d) extracting the display data from the adapter; and
17	(e) transmitting the display data via the communications device to the
18	speech synthesis device.
19	

1	23. The method as recited in claim 22 wherein the PC-Server has a
2	keyboard input interface, further comprising the steps of
3	(a) receiving keyboard commands from a user; and
4	(b) transmitting the received keyboard commands to and compatible
5	with the keyboard input interface.
6	
7	24. Apparatus for administration of a PC-Server, the PC-Server having
8	an architecture which outputs console data to a data bus for read and write
9	functions to peripherals including a display adapter, and having an input interface
10	comprising:
11	(a) an adapter on the bus which emulates a display adapter to ar
12	extent necessary to receive display data from the PC-Server's bus;
13	(b) a microprocessor for extracting the display data from the adapter
14	and for converting it to a stream compatible for transmission to a remote user;
15	(c) one or more serial devices for receiving data from the remote user
16	representing input commands to the PC-Server; and
17	(d) an emulator for transmitting input commands to, and compatible
18	with, the PC-Server input interface.
19	
20	25. The administration apparatus as recited in claim 24 wherein the
21	adapter emulates at least a video frame buffer of a display adapter.
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1	26. The administration apparatus as recited in claim 24 wherein the
2	adapter emulates at least video frame buffer and a video controller of a display
3	adapter.

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- 27. The administration apparatus as recited in claim 24 wherein the display data is graphical and further comprising a converter for converting the graphical display data to textual display data for transmission to a remote user.
- 28. The administration apparatus as recited in claim 24 wherein the PC-Server input interface is a keyboard input interface.